

EAST Search History

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|-----|-----|---|------------------------------|-----|-----|------------------|
| L23 | 172 | I22 and @ad<"20030107" | US-PGPUB; USPAT | AND | ON | 2007/09/28 08:43 |
| L24 | 24 | I23 and (flash or strobe or led) | US-PGPUB; USPAT | AND | ON | 2007/09/28 08:51 |
| L25 | 277 | (348/371).CCLS. | US-PGPUB; USPAT | OR | OFF | 2007/09/28 08:52 |
| L26 | 180 | I25 and @ad<"20030107" | US-PGPUB; USPAT | AND | ON | 2007/09/28 08:52 |
| L27 | 35 | I26 and led | US-PGPUB; USPAT | AND | ON | 2007/09/28 08:59 |
| L28 | 2 | (led or flash) adj4 "same" adj4 ("circuit board" or pcb or fcb or "flexible printed circuit") adj4 (sensor or imager or ccd or "image pickup device") | US-PGPUB; USPAT | AND | ON | 2007/09/28 09:03 |
| L29 | 4 | (sensor or imager or ccd or "image pickup device") adj4 "same" adj4 ("circuit board" or pcb or fcb or "flexible printed circuit") adj4 (led or flash) | US-PGPUB; USPAT | AND | ON | 2007/09/28 09:04 |
| L30 | 0 | (sensor or imager or ccd or "image pickup device") with "same" with ("circuit board" or pcb or fcb or "flexible printed circuit") with4 (led or flash) | US-PGPUB; USPAT | AND | ON | 2007/09/28 09:04 |
| L31 | 34 | (sensor or imager or ccd or "image pickup device") with "same" with ("circuit board" or pcb or fcb or "flexible printed circuit") with (led or flash) | US-PGPUB; USPAT | AND | ON | 2007/09/28 09:05 |
| L32 | 17 | ("20020063326" "20020090759" "20030024635" "20040232459" "5376561" "5387815" "5500552" "5643804" "5821138" "5929475" "6331722" "6372608" "6376333" "6521511" "6645830" "6818530" "RE38466").PN. | US-PGPUB; USPAT; USOCR | AND | ON | 2007/09/28 09:11 |
| L33 | 1 | (led with ("image sensor" or ccd or "image pickup device")).ti. | US-PGPUB; USPAT; USOCR | AND | ON | 2007/09/28 09:12 |
| L34 | 1 | (led and ("image sensor" or ccd or "image pickup device")).ti. | US-PGPUB; USPAT; USOCR | AND | ON | 2007/09/28 09:12 |
| L35 | 35 | (led and ("sensor" or ccd or "image pickup device")).ti. | US-PGPUB; USPAT; USOCR | AND | ON | 2007/09/28 09:15 |

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|-----|-------|---|------------------------------|-----|-----|------------------|
| L36 | 6727 | (led adj4 connect\$4 ("sensor" or ccd or "image pickup device")) | US-PGPUB; USPAT; USOCR | AND | ON | 2007/09/28 09:16 |
| L37 | 142 | (led adj4 connect\$4 adj4 ("sensor" or ccd or "image pickup device")) | US-PGPUB; USPAT; USOCR | AND | ON | 2007/09/28 09:16 |
| L38 | 87 | l37 and @ad<"20030107" | US-PGPUB; USPAT; USOCR | AND | ON | 2007/09/28 09:22 |
| L39 | 0 | (cell or mobile or cellular or phone or telephone) adj4 "with" adj4 (flash or strobe) | US-PGPUB; USPAT; USOCR | AND | ON | 2007/09/28 09:23 |
| L40 | 1 | (cell or mobile or cellular or phone or telephone) adj4 "has" adj4 (flash or strobe) | US-PGPUB; USPAT; USOCR | AND | ON | 2007/09/28 09:24 |
| L41 | 92012 | ("455").CLAS. | US-PGPUB; USPAT | OR | OFF | 2007/09/28 09:24 |
| L42 | 1439 | l41 and (camera or "image pickup device" or "image sensor" or ccd) and (flash) | US-PGPUB; USPAT | AND | ON | 2007/09/28 09:25 |
| L43 | 439 | l42 and @ad<"20030107" | US-PGPUB; USPAT | AND | ON | 2007/09/28 10:28 |
| L44 | 1 | ("20020147033").PN. | US-PGPUB; USPAT | OR | OFF | 2007/09/28 10:29 |
| L45 | 87 | led same (mobile or phone or telephone or cellular or cell) same ("image sensor" or camera or "image pickup device" or ccd) | FPRS; EPO; JPO | AND | ON | 2007/09/28 10:34 |
| L46 | 42 | l45 and @pd<"20030107" | FPRS; EPO; JPO | AND | ON | 2007/09/28 10:34 |
| L47 | 87 | flash same (mobile or phone or telephone or cellular or cell) same ("image sensor" or camera or "image pickup device" or ccd) | FPRS; EPO; JPO | AND | ON | 2007/09/28 10:34 |
| L48 | 50 | l47 and @pd<"20030107" | FPRS; EPO; JPO | AND | ON | 2007/09/28 12:22 |
| L49 | 1 | ("20010036845").PN. | US-PGPUB; USPAT | OR | OFF | 2007/09/28 12:22 |

EAST Search History

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|--|-----|---|---------------------------------|-----|----|------------------|
| S1 | 541 | (US-20040207823-\$ or US-20040082367-\$ or US-20070076118-\$ or US-20070066300-\$ or US-20050243198-\$ or US-20040125227-\$ or US-20040105025-\$ or US-20040246373-\$ or US-20070064138-\$ or US-20060066748-\$ or US-20070013774-\$ or US-20060164533-\$ or US-20050245288-\$ or US-20040135686-\$ or US-20070065039-\$ or US-20040077313-\$ or US-20040048632-\$ or US-20040130639-\$ or US-20070041630-\$ or US-20060125930-\$ or US-20060125925-\$ or US-20070036128-\$ or US-20040110474-\$ or US-20060017840-\$ or US-20060132615-\$ or US-20060028565-\$).did. or (US-20060089171-\$ or US-20040085745-\$ or US-20060125950-\$ or US-20040169722-\$ or US-20060164550-\$ or US-20060166712-\$ or US-20040174430-\$ or US-20040225425-\$ or US-20050281548-\$ or US-20050280730-\$ or US-20050280724-\$ or US-20040227847-\$ or US-20050186996-\$ or US-20050184352-\$ or US-20050175257-\$ or US-20050174454-\$ or US-20050173616-\$ or US-20040061034-\$ or US-20060135137-\$ or US-20040075620-\$ or US-20050168566-\$ or US-20050164752-\$ or US-20050164734-\$ or US-20050268240-\$ or US-20060052135-\$ or US-20060028567-\$ or US-20070008495-\$).did. or (US-20050266887-\$ or US-20050157203-\$ or US-20050151877-\$ or US-20050151849-\$ or US-20050149370-\$ or | US-PGPUB; USPAT; EPO; JPO | AND | ON | 2007/09/27 09:43 |
| 9/28/2007 12:23:22 PM C:\Documents and Settings\acutler\My Documents\EAST\Workspaces\10664387(2).wsp | | | | | | |
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|----|-----|---------------------------------|---------------------------------|-----|----|------------------|
| S2 | 144 | S1 and (flash or led or strobe) | US-PGPUB; USPAT; EPO; JPO | AND | ON | 2007/09/27 09:48 |
| S3 | 34 | S2 and @ad<"20030107" | US-PGPUB; USPAT; EPO; JPO | AND | ON | 2007/09/27 09:43 |

EAST Search History

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|-----------------------|----|---|---|-----|----|------------------|
| S4 | 97 | (US-20030125080-\$ or US-20030109232-\$ or US-20070010289-\$ or US-20050001905-\$ or US-20040240845-\$ or US-20050277437-\$ or US-20050275623-\$ or US-20060240700-\$ or US-20060238637-\$ or US-20060209505-\$ or US-20060142053-\$ or US-20060108588-\$ or US-20060097988-\$ or US-20060170651-\$ or US-20040212956-\$ or US-20040209645-\$ or US-20040204065-\$ or US-20060203439-\$ or US-20060199729-\$ or US-20050041136-\$ or US-20050037821-\$ or US-20050035912-\$ or US-20050026656-\$ or US-20050024500-\$ or US-20050233766-\$ or US-20050205291-\$).did. or (US-20050195576-\$ or US-20050275751-\$ or US-20050253923-\$ or US-20050239520-\$ or US-20050235021-\$ or US-20070004477-\$ or US-20070004250-\$ or US-20050177978-\$ or US-20050128322-\$ or US-20050094025-\$ or US-20050014538-\$ or US-20040203535-\$ or US-20030227564-\$ or US-20030064685-\$ or US-20060217148-\$ or US-20060046776-\$ or US-20060044442-\$ or US-20060040712-\$ or US-20050050686-\$ or US-20050041862-\$ or US-20060044407-\$ or US-20040051626-\$ or US-20040048632-\$ or US-20020180867-\$ or US-20020142798-\$ or US-20020089589-\$ or US-20020067408-\$).did. or (US-20020061767-\$ or US-20050101358-\$ or US-20050085280-\$ or US-20050064264-\$ or US-20050057550-\$ or | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2007/09/27 09:48 |
| 9/28/2007 12:23:22 PM | | C:\Documents and Settings\acuter\My Documents\EAST\Workspaces\10664387(2).wsp | | | | Page 7 |

EAST Search History

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|----|----|---------------------------------|---|-----|----|------------------|
| S5 | 24 | S4 and @ad<"20030107" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2007/09/27 09:49 |
| S6 | 4 | S5 and (flash or led or strobe) | US-PGPUB; USPAT; EPO; JPO | AND | ON | 2007/09/27 09:50 |

EAST Search History

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|-----------------------|-----|---|---|-----|----|------------------|
| S7 | 371 | (US-20050052568-\$ or US-20040227848-\$ or US-20010029167-\$ or US-20070010289-\$ or US-20070053682-\$ or US-20070036533-\$ or US-20070036532-\$ or US-20070035859-\$ or US-20070035858-\$ or US-20070035851-\$ or US-20070035206-\$ or US-20060017834-\$ or US-20050285970-\$ or US-20050275314-\$ or US-20050259155-\$ or US-20050237625-\$ or US-20050231817-\$ or US-20050225877-\$ or US-20070036534-\$ or US-20070077049-\$ or US-20070058070-\$ or US-20070047942-\$ or US-20070040924-\$ or US-20070035210-\$ or US-20070030573-\$ or US-20070019950-\$).did. or (US-20070008321-\$ or US-20070002455-\$ or US-20060274186-\$ or US-20060238075-\$ or US-20060238074-\$ or US-20060232169-\$ or US-20060222355-\$ or US-20060221472-\$ or US-20060221458-\$ or US-20060215281-\$ or US-20060209205-\$ or US-20060181748-\$ or US-20060181632-\$ or US-20060177210-\$ or US-20060172762-\$ or US-20060152818-\$ or US-20060152814-\$ or US-20060127077-\$ or US-20060125950-\$ or US-20060125925-\$ or US-20060119218-\$ or US-20060103893-\$ or US-20060103374-\$ or US-20060062559-\$ or US-20060056036-\$ or US-20060056035-\$ or US-20060049720-\$).did. or (US-20060045374-\$ or US-20060044455-\$ or US-20060041591-\$ or US-20060008129-\$ or US-20050275215-\$ or | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2007/09/27 09:49 |
| 9/28/2007 12:23:22 PM | | C:\Documents and Settings\scott\My Documents\EAST\Workspaces\10664387(2).wsp | | | | Page 9 |

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|-----|----|---------------------------------|---|-----|----|------------------|
| S8 | 0 | I47and @ad<"20030107" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2007/09/27 09:49 |
| S9 | 36 | S7 and @ad<"20030107" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2007/09/27 09:53 |
| S10 | 6 | S9 and (flash or led or strobe) | US-PGPUB; USPAT; EPO; JPO | AND | ON | 2007/09/27 09:53 |

EAST Search History

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|-----------------------|-----|---|---|-----|----|------------------|
| S11 | 200 | (US-20070076534-\$ or US-20050265608-\$ or US-20050262543-\$ or US-20060103893-\$ or US-20050161510-\$ or US-20060026184-\$ or US-20050088560-\$ or US-20050068584-\$ or US-20050060570-\$ or US-20030083864-\$ or US-20030053091-\$ or US-20030023443-\$ or US-20020184630-\$ or US-20020160836-\$ or US-20020156855-\$ or US-20020156660-\$ or US-20020156648-\$ or US-20020152313-\$ or US-20020137544-\$ or US-20020113884-\$ or US-20020102938-\$ or US-20020082001-\$ or US-20020065872-\$ or US-20020063783-\$ or US-20020049819-\$ or US-20020046353-\$).did. or (US-20050141043-\$ or US-20010053703-\$ or US-20010048534-\$ or US-20050114276-\$ or US-20050113025-\$ or US-20010022913-\$ or US-20010009456-\$ or US-20050054373-\$ or US-20050052695-\$ or US-20050044179-\$ or US-20050018050-\$ or US-20050001855-\$ or US-20040263630-\$ or US-20040252333-\$ or US-20040252139-\$ or US-20040247308-\$ or US-20040208481-\$ or US-20040204194-\$ or US-20040199303-\$ or US-20040196265-\$ or US-20040185900-\$ or US-20040171371-\$ or US-20040169742-\$ or US-20040160517-\$ or US-20040159255-\$ or US-20040125208-\$ or US-20040090528-\$).did. or (US-20040008260-\$ or US-20030227554-\$ or US-20030222988-\$ or US-20030179405-\$ or US-20030122040-\$ or | US-PGPUB; USPAT; EPO; JPO; DERWENT | AND | ON | 2007/09/27 09:53 |
| 9/28/2007 12:23:22 PM | | C:\Documents and Settings\acutier\My Documents\EAST\Workspaces\10664387(2).wsp | | | | |
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|-----|----|----------------------------------|---|-----|----|------------------|
| S12 | 46 | S11 and @ad<"20030107" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2007/09/27 09:57 |
| S13 | 24 | S12 and (flash or led or strobe) | US-PGPUB; USPAT; EPO; JPO | AND | ON | 2007/09/27 09:57 |

EAST Search History

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|-----------------------|-----|---|--------------------|-----|----|------------------|
| S14 | 123 | (US-20040207823-\$ or US-20070066300-\$ or US-20040246373-\$ or US-20070013774-\$ or US-20050245288-\$ or US-20070041630-\$ or US-20040110474-\$ or US-20040085745-\$ or US-20040174430-\$ or US-20050280730-\$ or US-20050175257-\$ or US-20050173616-\$ or US-20040061034-\$ or US-20040075620-\$ or US-20050168566-\$ or US-20050164752-\$ or US-20070008495-\$ or US-20050151877-\$ or US-20050151849-\$ or US-20050128299-\$ or US-20050122413-\$ or US-20040207722-\$ or US-20060146009-\$ or US-20040119824-\$ or US-20040116168-\$ or US-20050021803-\$).did. or (US-20060189349-\$ or US-20060189348-\$ or US-20060251408-\$ or US-20060246945-\$ or US-20060239575-\$ or US-20040157564-\$ or US-20060187328-\$ or US-20060223488-\$ or US-20060221207-\$ or US-20060135224-\$ or US-20040150723-\$ or US-20040056981-\$ or US-20040056977-\$ or US-20050275751-\$ or US-20060114336-\$ or US-20050231607-\$ or US-20060210142-\$ or US-20050018050-\$ or US-20050062885-\$ or US-20040135879-\$ or US-20060033809-\$ or US-20060126894-\$ or US-20040218082-\$ or US-20060279652-\$ or US-20050083418-\$ or US-20040203608-\$ or US-20050107141-\$).did. or (US-20050001905-\$ or US-20040179091-\$ or US-20040183931-\$ or US-20040190614-\$ or US-20040106300-\$ or | US-PGPUB; USPAT | AND | ON | 2007/09/27 09:57 |
| 9/28/2007 12:23:22 PM | | C:\Documents and Settings\acoutier\My Documents\EAST\Workspaces\10664387(2).wsp | | | | Page 13 |

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|-----|--------|--|---|-----|-----|------------------|
| S15 | 42 | S14 and @ad<"20030107" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | AND | ON | 2007/09/27 09:57 |
| S16 | 19 | S15 and (flash or led or strobe) | US-PGPUB; USPAT; EPO; JPO | AND | ON | 2007/09/27 10:00 |
| S17 | 0 | "6704586".pn. and (led of flash or strobe) | US-PGPUB; USPAT; EPO; JPO | AND | ON | 2007/09/27 10:01 |
| S18 | 1 | ("6060722").PN. | US-PGPUB; USPAT | OR | OFF | 2007/09/27 10:02 |
| S19 | 0 | S18 and (cellular or mobile or terminal or cell or phone or telephone) | US-PGPUB; USPAT | AND | ON | 2007/09/27 10:03 |
| S20 | 318915 | (cellular or mobile or terminal or phone or telephone) and (flash or strobe or led or "light emitting device") | US-PGPUB; USPAT | AND | ON | 2007/09/27 10:04 |
| S21 | 180941 | (cellular or mobile or terminal or phone or telephone) and (flash or strobe) | US-PGPUB; USPAT | AND | ON | 2007/09/27 10:41 |
| S22 | 98375 | S21 and @ad<"20030107" | US-PGPUB; USPAT | AND | ON | 2007/09/27 11:26 |
| S23 | 544 | S22 and (fpc or "flexible printed circuit") | US-PGPUB; USPAT | AND | ON | 2007/09/27 10:05 |
| S24 | 46 | ("flexible printed circuit" or fpc) with (flash or strobe or led or "light emitting diode") with (sensor or imager or camera or ccd or cmos) | US-PGPUB; USPAT | AND | ON | 2007/09/27 10:50 |
| S25 | 177 | (348/211.2).CCLS. | US-PGPUB; USPAT | OR | OFF | 2007/09/27 10:50 |
| S26 | 1 | S25 and (fpc or "flexible printed circuit") | US-PGPUB; USPAT | AND | ON | 2007/09/27 10:52 |
| S27 | 1 | ("20010036845").PN. | US-PGPUB; USPAT | OR | OFF | 2007/09/27 10:52 |
| S28 | 3344 | (455/556.1,556.2,557).CCLS. | US-PGPUB; USPAT | OR | OFF | 2007/09/27 10:52 |
| S29 | 24 | S28 and (fpc or "flexible printed circuit") | US-PGPUB; USPAT | AND | ON | 2007/09/27 10:53 |
| S30 | 5 | ("5666159" "5982853" "6069648" "6259407" "6308084").PN. | US-PGPUB; USPAT; USOCR | AND | ON | 2007/09/27 11:00 |

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|-----|-------|---|------------------------------|-----|-----|------------------|
| S31 | 92012 | ("455").CLAS. | US-PGPUB; USPAT | OR | OFF | 2007/09/27 11:00 |
| S32 | 5374 | S31 and (camera or imager or "image sensor" or ccd or "imaging device") | US-PGPUB; USPAT | AND | ON | 2007/09/27 11:01 |
| S33 | 82 | S32 and (fpc or "flexible printed circuit") | US-PGPUB; USPAT | AND | ON | 2007/09/27 11:01 |
| S34 | 61 | S33 not S29 | US-PGPUB; USPAT | AND | ON | 2007/09/27 11:01 |
| S35 | 23 | S34 and (flash or strobe or led or "light emitting device") | US-PGPUB; USPAT | AND | ON | 2007/09/27 11:05 |
| S36 | 3 | ("20030064685" "20040023684" "5491507").PN. | US-PGPUB; USPAT | AND | ON | 2007/09/27 11:07 |
| S37 | 1 | ("6879337").PN. | US-PGPUB; USPAT | AND | ON | 2007/09/27 11:07 |
| S38 | 1 | ("20040051779").PN. | US-PGPUB; USPAT | AND | ON | 2007/09/27 11:07 |
| S39 | 4 | ("20020173281" "5926748" "6208874" "6782273").PN. | US-PGPUB; USPAT; USOCR | AND | ON | 2007/09/27 11:25 |
| S40 | 693 | (fpc or "flexible printed circuit") with (flash or strobe or led) | US-PGPUB; USPAT; USOCR | AND | ON | 2007/09/27 11:40 |
| S41 | 246 | S40 and (phone or mobile or cellular) | US-PGPUB; USPAT; USOCR | AND | ON | 2007/09/27 11:26 |
| S42 | 94 | S41 and @ad<"20030107" | US-PGPUB; USPAT | AND | ON | 2007/09/27 11:26 |
| S43 | 176 | (pcb or "printed circuit board") with (flash or strobe) same (sensor or ccd or imager or "imaging device" or "image pickup device") | US-PGPUB; USPAT; USOCR | AND | ON | 2007/09/27 11:42 |
| S44 | 90 | S43 and @ad<"20030107" | US-PGPUB; USPAT; USOCR | AND | ON | 2007/09/27 11:52 |
| S45 | 90 | S44 not S42 | US-PGPUB; USPAT; USOCR | AND | ON | 2007/09/27 11:42 |

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|-----------------------|-----|---|--------------------|-----|----|------------------|
| S46 | 551 | (US-20030016284-\$ or US-20040080642-\$ or US-20040056971-\$ or US-20070070511-\$ or US-20070070228-\$ or US-20070069395-\$ or US-20070069105-\$ or US-20070065128-\$ or US-20070057150-\$ or US-20070057148-\$ or US-20070054419-\$ or US-20070053685-\$ or US-20070047952-\$ or US-20070047109-\$ or US-20070045551-\$ or US-20070045550-\$ or US-20070040932-\$ or US-20070035785-\$ or US-20070034782-\$ or US-20070029466-\$ or US-20070025715-\$ or US-20070019950-\$ or US-20070019102-\$ or US-20070019101-\$ or US-20060268157-\$ or US-20060266835-\$).did. or (US-20060257131-\$ or US-20060252246-\$ or US-20060244859-\$ or US-20060243884-\$ or US-20060239671-\$ or US-20060140609-\$ or US-20060231750-\$ or US-20060228103-\$ or US-20060228099-\$ or US-20060227236-\$ or US-20060221469-\$ or US-20060219862-\$ or US-20060209365-\$ or US-20060209205-\$ or US-20060204243-\$ or US-20060203875-\$ or US-20060203095-\$ or US-20060202318-\$ or US-20060197862-\$ or US-20060189216-\$ or US-20060189183-\$ or US-20060187337-\$ or US-20060181633-\$ or US-20060171701-\$ or US-20060171698-\$ or US-20060170814-\$ or US-20060164539-\$).did. or (US-20060163461-\$ or US-20060152826-\$ or US-20060152614-\$ or US-20060152576-\$ or US-20060141776-\$ or | US-PGPUB; USPAT | AND | ON | 2007/09/27 11:52 |
| 9/28/2007 12:23:22 PM | | C:\Documents and Settings\acutler\My Documents\EAST\Workspaces\10664387(2).wsp | | | | Page 16 |

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|-----|------|--|------------------------------|-----|-----|------------------|
| S47 | 172 | S46 and @ad<"20030107" | US-PGPUB; USPAT; USOCR | AND | ON | 2007/09/27 11:52 |
| S48 | 8 | S47 and (pcb or "printed circuit board" or fpc or "flexible printed circuit") and (flash or strobe or led or "light emitting diode") | US-PGPUB; USPAT; USOCR | AND | ON | 2007/09/27 12:50 |
| S49 | 1257 | (pcb or "printed circuit board" or fpc or "flexible printed circuit") and (flash or strobe or led or "light emitting diode") | FPRS; EPO; JPO | AND | ON | 2007/09/27 12:51 |
| S50 | 73 | S49 and (camera or imager or "image pickup device" or "image sensor" or ccd) | FPRS; EPO; JPO | AND | ON | 2007/09/27 12:51 |
| S51 | 64 | S50 and @pd<"20030107" | FPRS; EPO; JPO | AND | ON | 2007/09/27 13:13 |
| S52 | 312 | (348/370).CCLS. | US-PGPUB; USPAT | OR | OFF | 2007/09/27 13:08 |
| S53 | 34 | S1 and (pcb or fpc or "flexible printed circuit") | US-PGPUB; USPAT | AND | ON | 2007/09/27 13:13 |
| S54 | 277 | (348/371).CCLS. | US-PGPUB; USPAT | OR | OFF | 2007/09/27 13:14 |
| S55 | 0 | S54 and @ad<"20030107" | FPRS; EPO; JPO | AND | ON | 2007/09/27 13:14 |
| S56 | 0 | S54 and @ad<"20030107" | FPRS; EPO; JPO | AND | ON | 2007/09/27 13:14 |
| S57 | 180 | S54 and @ad<"20030107" | US-PGPUB; USPAT | AND | ON | 2007/09/27 13:41 |
| S58 | 2074 | (257/432-434).CCLS. | US-PGPUB; USPAT | OR | OFF | 2007/09/27 13:41 |
| S59 | 49 | S58 and (fpc or "flexible printed circuit") | US-PGPUB; USPAT | AND | ON | 2007/09/27 13:49 |
| S60 | 5 | ("6211461" "6342406" "6476503" "6580169" "6731010").PN. | US-PGPUB; USPAT; USOCR | AND | ON | 2007/09/27 13:45 |
| S61 | 66 | S58 and (flash or strobe) | US-PGPUB; USPAT | AND | ON | 2007/09/27 13:49 |
| S62 | 21 | S61 and @ad<"20030107" | US-PGPUB; USPAT | AND | ON | 2007/09/27 13:51 |
| S63 | 388 | (348/374).CCLS. | US-PGPUB; USPAT | OR | OFF | 2007/09/27 13:51 |
| S64 | 75 | S63 and (flash or strobe) | US-PGPUB; USPAT | AND | ON | 2007/09/27 13:51 |
| S65 | 58 | S64 and @ad<"20030107" | US-PGPUB; USPAT | AND | ON | 2007/09/27 14:14 |

EAST Search History

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| S66 | 14 | (US-20030066678-\$ or US-20030036365-\$ or US-20020064385-\$ or US-20010036845-\$ or US-20040023684-\$ or US-20020076960-\$ or US-20060017128-\$).did. or (US-6060722-\$ or US-6856765-\$ or US-6704586-\$ or US-6259407-\$ or US-6904298-\$ or US-6879337-\$ or US-6445417-\$).did. | US-PGPUB; USPAT | AND | ON | 2007/09/27 14:09 |
| S67 | 5 | S66 and (flash or strobe) | US-PGPUB; USPAT | AND | ON | 2007/09/27 14:12 |
| S68 | 12 | (phone same flash same camera).ab. | US-PGPUB; USPAT | AND | ON | 2007/09/27 14:13 |
| S69 | 0 | "455.ccls" | US-PGPUB; USPAT | AND | ON | 2007/09/27 14:13 |
| S70 | 92012 | ("455").CLAS. | US-PGPUB; USPAT | OR | OFF | 2007/09/27 14:13 |
| S71 | 454 | S70 and (flash same led) | US-PGPUB; USPAT | AND | ON | 2007/09/27 14:14 |
| S72 | 310 | S70 and (flash with led) | US-PGPUB; USPAT | AND | ON | 2007/09/27 14:14 |
| S73 | 0 | l143and @ad<"20030107" | US-PGPUB; USPAT | AND | ON | 2007/09/27 14:14 |
| S74 | 171 | S72 and @ad<"20030107" | US-PGPUB; USPAT | AND | ON | 2007/09/27 14:15 |
| S75 | 7 | S74 and (camera if "imaging device" or "image pickup device" or "image sensor" or ccd or imager) | US-PGPUB; USPAT | AND | ON | 2007/09/27 14:16 |
| S76 | 20 | S74 and (camera or "imaging device" or "image pickup device" or "image sensor" or ccd or imager) | US-PGPUB; USPAT | AND | ON | 2007/09/27 14:16 |
| S77 | 5 | fpc with connect\$4 with (flash or led) with ("image sensor" or ccd or imager or "image pickup device" or sensor) | US-PGPUB; USPAT | AND | ON | 2007/09/27 14:48 |
| S78 | 4 | ("20020191102" "20040008274" "5463437" "5895128").PN. | US-PGPUB; USPAT | AND | ON | 2007/09/27 14:50 |
| S79 | 3 | ("20040008274" "20040095505" "6088542").PN. | US-PGPUB; USPAT | AND | ON | 2007/09/27 14:51 |
| S80 | 649 | ((mobile or phone or cellular or telephone) same (flash or led or strobe)).ab. | US-PGPUB; USPAT | AND | ON | 2007/09/27 14:52 |

EAST Search History

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| S81 | 433 | S80 and @ad<"20030107" | US-PGPUB; USPAT | AND | ON | 2007/09/27 14:52 |
| S82 | 10 | ("4963987" "5258800" "5265273" "5471242" "5729291" "5893037" "6160967" "6311023" "6356717" "6683644").PN. | US-PGPUB; USPAT; USOCR | AND | ON | 2007/09/27 15:05 |
| S83 | 0 | "6823198" and (fpc or "flexible printed circuit") | US-PGPUB; USPAT; USOCR | AND | ON | 2007/09/27 15:06 |
| S84 | 0 | "6823198".pn. and (fpc or "flexible printed circuit") | US-PGPUB; USPAT; USOCR | AND | ON | 2007/09/27 15:23 |
| S85 | 71596 | ("362").CLAS. | US-PGPUB; USPAT | OR | OFF | 2007/09/27 15:23 |
| S86 | 5883 | S85 and (camera or imager or "image pickup device" or sensor) | US-PGPUB; USPAT | AND | ON | 2007/09/27 15:24 |
| S87 | 5982 | S85 and (camera or imager or "image pickup device" or sensor or ccd) | US-PGPUB; USPAT | AND | ON | 2007/09/27 15:25 |
| S88 | 895 | S87 and (pcb or "printed circuit board" or fpc or "flexible printed circuit") | US-PGPUB; USPAT | AND | ON | 2007/09/27 15:25 |
| S89 | 502 | S88 and @ad<"20030107" | US-PGPUB; USPAT | AND | ON | 2007/09/27 15:26 |
| S90 | 3064 | S85 and (camera or imager or "image pickup device" or "image sensor" or ccd) | US-PGPUB; USPAT | AND | ON | 2007/09/27 15:25 |
| S91 | 427 | S90 and (pcb or "printed circuit board" or fpc or "flexible printed circuit") | US-PGPUB; USPAT | AND | ON | 2007/09/27 15:25 |
| S92 | 260 | S91 and @ad<"20030107" | US-PGPUB; USPAT | AND | ON | 2007/09/27 15:36 |
| S93 | 141 | (348/68).CCLS. | US-PGPUB; USPAT | OR | OFF | 2007/09/27 15:36 |
| S94 | 118 | S93 and @ad<"20030107" | US-PGPUB; USPAT | AND | ON | 2007/09/27 15:36 |
| S95 | 10 | S94 and ("circuit board" or pcb of fcb or "flexible printed circuit") | US-PGPUB; USPAT | AND | ON | 2007/09/27 15:37 |
| S96 | 24 | S94 and ("circuit board" or pcb of fcb or "flexible printed circuit" or substrate) | US-PGPUB; USPAT | AND | ON | 2007/09/27 15:48 |
| S97 | 161 | led with substrate with ("image sensor" or ccd or "image pickup device" or imager or "image pickup element") | US-PGPUB; USPAT | AND | ON | 2007/09/27 15:50 |

EAST Search History

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|----------|--------|---|--------------------|-----|-----|------------------|
| S98 | 108009 | ("348").CLAS. | US-PGPUB; USPAT | OR | OFF | 2007/09/27 15:50 |
| S99 | 98875 | ("250").CLAS. | US-PGPUB; USPAT | OR | OFF | 2007/09/27 15:51 |
| S10 0 | 250386 | ("257").CLAS. | US-PGPUB; USPAT | OR | OFF | 2007/09/27 15:51 |
| S10 1 | 73 | S97 and (S98 or S99 or S100) | US-PGPUB; USPAT | AND | ON | 2007/09/27 16:03 |
| S10 2 | 88 | S97 not S101 | US-PGPUB; USPAT | AND | ON | 2007/09/27 16:03 |
| S10 3 | 39 | S102 and @ad<"20030107" | US-PGPUB; USPAT | AND | ON | 2007/09/27 16:10 |
| S10 4 | 281 | (348/87).CCLS. | US-PGPUB; USPAT | OR | OFF | 2007/09/27 16:12 |
| S10 5 | 0 | S104 and (fpc) | US-PGPUB; USPAT | AND | ON | 2007/09/27 16:11 |
| S10 6 | 1 | S104 and ("flexible printed circuit") | US-PGPUB; USPAT | AND | ON | 2007/09/27 16:11 |
| S10 7 | 255 | S104 and @ad<"20030107" | US-PGPUB; USPAT | AND | ON | 2007/09/27 16:11 |
| S10 8 | 43 | (348/73).CCLS. | US-PGPUB; USPAT | OR | OFF | 2007/09/28 08:43 |
| S10 9 | 4 | S108 and "circuit board" | US-PGPUB; USPAT | AND | ON | 2007/09/27 16:13 |
| S11 0 | 25 | (348/122).CCLS. | US-PGPUB; USPAT | OR | OFF | 2007/09/27 16:15 |
| S11 1 | 108009 | ("348").CLAS. | US-PGPUB; USPAT | OR | OFF | 2007/09/27 16:15 |
| S11 2 | 21165 | S111 and (flash or strobe or led) | US-PGPUB; USPAT | AND | ON | 2007/09/27 16:15 |
| S11 3 | 744 | S111 and (flash or strobe or led) with (substrate or "circuit board" or fpc or pcb) | US-PGPUB; USPAT | AND | ON | 2007/09/27 16:16 |
| S11 4 | 148 | S111 and ((flash or strobe or led) with (substrate or "circuit board" or fpc or pcb)) same ("image sensor" or ccd or "image pickup device" or imager or sensor) | US-PGPUB; USPAT | AND | ON | 2007/09/27 16:17 |
| S11 5 | 87 | S114 and @ad<"20030107" | US-PGPUB; USPAT | AND | ON | 2007/09/27 16:45 |
| S11 6 | 97 | ("camera phone" or "phone camera") with (flash or strobe or led) | US-PGPUB; USPAT | AND | ON | 2007/09/27 16:50 |
| S11 7 | 3 | S116 and @ad<"20030107" | US-PGPUB; USPAT | AND | ON | 2007/09/27 16:46 |

EAST Search History

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| S11 8 | 0 | "6823198".pn. and flexible | US-PGPUB; USPAT | AND | ON | 2007/09/27 17:34 |
| S11 9 | 21 | "348".clas. and "led substrate" | US-PGPUB; USPAT | AND | ON | 2007/09/27 17:35 |
| S12 0 | 10 | "348".clas. and "led pcb" | US-PGPUB; USPAT | AND | ON | 2007/09/27 17:37 |
| S12 1 | 0 | "348".clas. and "led fcb" | US-PGPUB; USPAT | AND | ON | 2007/09/27 17:38 |
| S12 2 | 0 | "348".clas. and "led fpc" | US-PGPUB; USPAT | AND | ON | 2007/09/27 17:38 |
| S12 3 | 3263 | led adj4 ("printed circuit board" or pcb or fpc or "flexible printed circuit") | US-PGPUB; USPAT | AND | ON | 2007/09/27 17:39 |
| S12 4 | 927 | S123 and (camera or imager or "imaging device" or "image pickup device" or "image sensor" or ccd) | US-PGPUB; USPAT | AND | ON | 2007/09/27 17:39 |
| S12 5 | 425 | S124 and @ad<"20030107" | US-PGPUB; USPAT | AND | ON | 2007/09/27 17:42 |
| S12 6 | 4244 | silverbrook.in. or siverbrook.as. | US-PGPUB; USPAT | AND | ON | 2007/09/27 17:43 |
| S12 7 | 235 | S125 not S126 | US-PGPUB; USPAT | AND | ON | 2007/09/27 17:43 |